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DATE MAILED: 04/05/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/679,302	10/07/2003	Timothy Antesberger	EI-2-03-011	5212	
7.	590 04/05/2006		EXAM	EXAMINER	
LAWRENCE	R. FRALEY		ESTRADA, I	MICHELLE	
,	WARD, & KATTELL Y MUTUAL BUILDING		ART UNIT	PAPER NUMBER	
80 EXCHANG			2823		
BINGHAMTO	N, NY 13901		D. T. M. M. T. D. 04/05/000		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	,-			
Office Action Summary		10/679,302	ANTESBERGER ET AL.				
		Examiner	Art Unit				
		Michelle Estrada	2823				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	correspondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed n the mailing date of this communicatio ED (35 U.S.C.§ 133).				
Status	•		•				
1)⊠	Responsive to communication(s) filed on 12 Ja	anuary 2006.					
2a)□	This action is FINAL . 2b)⊠ This	action is non-final.	·				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposit	ion of Claims						
	Claim(s) 76-84 is/are pending in the application	n					
7)63	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠	☐ Claim(s) 82-84 is/are allowed.						
6)[\implies]	_						
	Claim(s) 77-80 is/are objected to.						
8)□	Claim(s) are subject to restriction and/o	r election requirement.					
Applicat	ion Papers						
	The specification is objected to by the Examine	ır					
•			Examiner.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correct	= : :		d).			
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.				
Priority (under 35 U.S.C. § 119	•					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents: 2. Certified copies of the priority documents: 3. Copies of the certified copies of the priority application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Am		*					
Attachmen 1) Notice	e of References Cited (PTO-892)	4) Interview Summary	/ (PTO-413)				
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 76 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mayer et al. (5,264,108) in view of Park et al. (6,809,335).

Re claim 1, Mayer et al. discloses providing a first dielectric layer having a first surface (15); forming a first pattern of conductors (16) and a second pattern of conductors (17) spaced from said first pattern and electrically coupled thereto on said first surface of said first dielectric layer; forming a common conductive line (13) on said first surface of said first dielectric layer electrically connected to each of said conductors of said second pattern of conductors (See fig. 1); and thereafter terminating said electrical connections between each of said conductors of said second pattern of conductors and said common line using a laser (See Abstract).

Mayer et al. do not disclose positioning a second dielectric layer substantially over said first and second patterns of conductors.

Park et al. disclose positioning a second dielectric layer (30) substantially over said first and second patterns of conductors (22/24).

It would have been within the scope of one of ordinary skill in the art to combine the teachings of Mayer et al. and Park et al. to enable the second dielectric formation

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step of Park et al. to be performed in the process of Mayer et al. to isolate further structures from the first and second conductive patterns.

Claim 81 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mayer et al. (5,264,108) in view of Kanamaru et al. (2005/0074910).

Re claim 1, Mayer et al. discloses providing a first dielectric layer having a first surface (15); forming a first pattern of conductors (16) and a second pattern of conductors (17) spaced from said first pattern and electrically coupled thereto on said first surface of said first dielectric layer; forming a common conductive line (13) on said first surface of said first dielectric layer electrically connected to each of said conductors of said second pattern of conductors (See fig. 1); and thereafter terminating said electrical connections between each of said conductors of said second pattern of conductors and said common line using a laser (See Abstract).

Mayer et al. do not disclose wherein said forming of said first and second patterns of conductors being accomplished using electrolytic plating.

Kanamaru et al. disclose that conductive layers and patterns can be accomplished using electrolytic plating [0046].

It would have been within the scope of one of ordinary skill in the art to combine the teachings of Mayer et al. and Kanamaru et al. to enable the conductive patterns formation step of Mayer et al. to be performed according to the teachings of Kanamaru et al. because one of ordinary skill in the art would have been motivated to look to alternative suitable methods of performing the disclosed conductive patterns formation

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step of Mayer et al. and art recognized suitability for an intended purpose has been recognized to be motivation to combine. See MPEP 2144.07.

Allowable Subject Matter

Claims 77-80 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 82-84 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michelle Estrada whose telephone number is 571-272-1858. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2800.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michelle Estrada Primary Examiner Art Unit 2823

ME April 3, 2006